

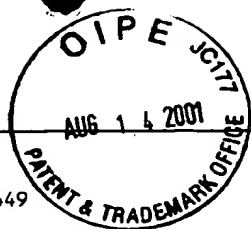
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.5030001APPLICATION NO.
09/808,124APPLICANT
Potter *et al.*FILING DATE
March 15, 2001GROUP
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
TS	AA1	5,244,797	09/14/1993	Kotewicz <i>et al.</i>	435	194	03/18/1991
	AB1	5,405,776	04/11/1995	Kotewicz <i>et al.</i>	435	252.33	01/24/1992
	AC1	5,668,005	09/16/1997	Kotewicz <i>et al.</i>	435	194	03/12/1996
	AD1	6,063,608	05/16/2000	Kotewicz <i>et al.</i>	435	194	02/10/1997
TS	AE1	6,136,582	10/24/2000	Gao <i>et al.</i>	435	194	01/20/1998
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
TS	AL1	WO 98/47912	10/29/1998	WIPO			Yes No
TS	AM1	WO 99/10366	03/04/1999	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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TS	AR	1	Allain, B., <i>et al.</i> , "CIS Elements and Trans-acting Factors required for Minus Strand DNA Transfer during Reverse Transcription of the Genomic RNA of Murine Leukemia Virus," <i>J. Mol. Biol.</i> 277:225-235, Academic Press(1998)
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TS	AT	1	Arnold, E., <i>et al.</i> , "Targeting HIV Reverse Transcriptase for Anti-AIDS Drug Design: Structural and Biological Considerations for Chemotherapeutic Strategies," <i>Drug Design and Discovery</i> 13:29-47, Harwood Academic Publishers GmbH (1996)

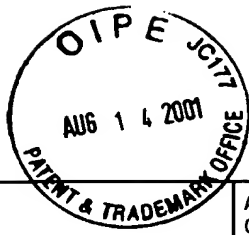
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TS	AR	2	Bahar, I., <i>et al.</i> , "Collective Motions in HIV-1 Reverse Transcriptase: Examination of Flexibility and Enzyme Function," <i>J. Mol. Biol.</i> 285:1023-1037, Academic Press (January 1999)
	AS	2	Bakhanashvili, M., and Hizi, A., "A possible role for cysteine residues in the fidelity of DNA synthesis exhibited by the reverse transcriptase of human immunodeficiency viruses type 1 and type 2," <i>FEBS</i> 304:289-293, Elsevier Science Publishers B.V. (1992)
TS	AT	2	Bakhanashvili, M., and Hizi, A., "Fidelity of the reverse transcriptase of human immunodeficiency virus type 2," <i>FEBS</i> 306:151-156, Elsevier Science Publishers B.V. (1992)

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TS	AR	3	Bakhanashvili, M., and Hizi, A., "Fidelity of the RNA-Dependent DNA Synthesis Exhibited by the Reverse Transcriptases of Human Immunodeficiency Virus Types 1 and 2 and of Murine Leukemia Virus: Mispair Extension Frequencies," <i>Biochem. 31</i> :9393-9398, American Chemical Society (1992)
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TS	AT	3	Bakhanashvili, M., <i>et al.</i> , "Mutational studies of human immunodeficiency virus type 1 reverse transcriptase: the involvement of residues 183 and 184 in the fidelity of DNA synthesis," <i>FEBS Lett. 391</i> :257-262, Elsevier Science Publishers B.V. (1996)

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TS	AR	<u>4</u>	Basu, S., et al., "Sulphydryl groups in the template-primer-binding domain of murine leukemia virus reverse transcriptase," <i>Biochem. J.</i> 296:577-583, The Biochemical Society, London (1993)
	AS	<u>4</u>	Beard, W.A., et al., "Structure/Function Studies of Human Immunodeficiency Virus Type 1 Reverse Transcriptase," <i>J. Biol. Chem.</i> 269:28091-28097, American Society for Biochemistry and Molecular Biology (1994)
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TS	AR	5	Bebenek, K., and Kunkel, T.A., "The Fidelity of Retroviral Reverse Transcriptase," in <i>Reverse Transcriptase</i> , Skalka, A.M., and Goff, S.P. (eds.), Cold Spring Harbor Laboratory Press, Plainview, NY, pp. 85-102 (1993)
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TS	AT	5	Bebenek, K., <i>et al.</i> , "The Effects of dNTP Pool Imbalances on Frameshift Fidelity during DNA Replication," <i>J. Biol. Chem.</i> 267:3589-3596, American Society for Biochemistry and Molecular Biology (1992)

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TS 	AR	<u>6</u>	Bebenek, K., <i>et al.</i> , "Error-prone Polymerization by HIV-1 Reverse Transcriptase," <i>J. Biol. Chem.</i> 268:10324-10334, American Society for Biochemistry and Molecular Biology (1993)
	AS	<u>6</u>	Bebenek, K., and Kunkel, T.A., "Analyzing Fidelity of DNA Polymerases," <i>Methods in Enzymol.</i> 262:217-232, Academic Press (1995)
TS	AT	<u>6</u>	Bebenek, K., <i>et al.</i> , "Reduced Frameshift Fidelity and Processivity of HIV-1 Reverse Transcriptase Mutants Containing Alanine Substitutions in Helix H of the Thumb Subdomain," <i>J. Biol. Chem.</i> 270:19516-19523, American Society for Biochemistry and Molecular Biology (1995)

EXAMINER Teresa Strzelecka	DATE CONSIDERED 5/13/02
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TS	AR	Z	Bebenek, K., <i>et al.</i> , "A minor groove binding track in reverse transcriptase," <i>Nature Structural Biol.</i> 4:194-197, Macmillan Magazines Ltd (1997)
	AS	Z	Ben-Artzi, H., <i>et al.</i> , "Characterization of the double stranded RNA dependent RNase activity associated with recombinant reverse transcriptase," <i>Nucleic Acids Res.</i> 20:5115-5118, Oxford University Press (1992)
TS	AT	Z	Blain, S.W., and Goff, S.P., "Effects on DNA Synthesis and Translocation Caused by Mutations in the RNase H Domain of Moloney Murine Leukemia Virus Reverse Transcriptase," <i>J. Virol.</i> 69:4440-4452, The American Society for Microbiology (1995)

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TS	AR	8	Boyer, J.C., <i>et al.</i> , "Analyzing the Fidelity of Reverse Transcription and Transcription," <i>Meth. in Enzymol.</i> 275:523-537, Academic Press (1996)
	AS	8	Boyer, P.L., <i>et al.</i> , "Mutational Analysis of the Fingers Domain of Human Immunodeficiency Virus Type 1 Reverse Transcriptase," <i>J. Virol.</i> 66:7533-7537, The American Society for Microbiology (1992)
TS	AT	8	Boyer, P.L., <i>et al.</i> , "Mutational Analysis of the Fingers and Palm Subdomains of Human Immunodeficiency Virus Type-1 (HIV-1) Reverse Transcriptase," <i>J. Mol. Biol.</i> 243:472-483, Academic Press (1994)

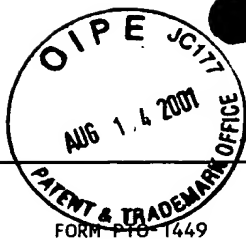
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TS	AR	2	Boyer, P.L., and Hughes, S.H., "Analysis of Mutations at Position 184 in Reverse Transcriptase of Human Immunodeficiency Virus Type 1," <i>Antimicrobial Agents and Chemotherapy</i> 39:1624-1628, The American Society for Microbiology (1995)
	AS	2	Caliendo, A.M., <i>et al.</i> , "Effects of Zidovudine-Selected Human Immunodeficiency Virus Type 1 Reverse Transcriptase Amino Acid Substitutions on Processive DNA Synthesis and Viral Replication," <i>J. Virol.</i> 70:2146-2153, The American Society for Microbiology (1996)
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TS	AR	10	Chao, S-F., <i>et al.</i> , "Mutational sensitivity patterns define critical residues in the palm subdomain of the reverse transcriptase of human immunodeficiency virus type 1," <i>Nucleic Acids Res.</i> 23:803-810, Oxford University Press (1995)
	AS	10	Chen, Y., and Marion, P.L., "Amino Acids Essential for RNase H Activity of Hepadnaviruses Are Also Required for Efficient Elongation of Minus-Strand Viral DNA," <i>J. Virol.</i> 70:6151-6156, The American Society for Microbiology (1996)
TS	AT	10	Chowdhury, K., <i>et al.</i> , "Elucidation of the Role of Arg 110 of Murine Leukemia Virus Reverse Transcriptase in the Catalytic Mechanism: Biochemical Characterization of Its Mutant Enzymes," <i>Biochemistry</i> 35:16610-16620, American Chemical Society (1996)

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TS	AR	11	Creighton, S., et al., "Base Mismatch Extension Kinetics," 267:2633-2639, American Society for Biochemistry and Molecular Biology (1992)
	AS	11	DeStefano, J.J., et al., "Parameters that influence processive synthesis and site-specific termination by human immunodeficiency virus reverse transcriptase on RNA and DNA templates," <i>Biochimica et Biophysica Acta</i> 1131:270-280, Elsevier Science Publishers B.V. (1992)
TS	AT	11	Diaz, L., and DeStefano, J.J., "Strand transfer is enhanced by mismatched nucleotides at the 3' primer terminus: a possible link between HIV reverse transcriptase fidelity and recombination," <i>Nucleic Acids Res.</i> 24:3086-3092, Oxford University Press (1996)

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TS	AR	12	Drosopoulos, W.C., and Prasad, V.R., "Increased Polymerase Fidelity of E89G, a Nucleoside Analog-Resistant Variant of Human Immunodeficiency Virus Type 1 Reverse Transcriptase," <i>J. Virol.</i> 70:4834-4838, The American Society for Microbiology (1996)
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TS	AT	12	Dudding, L.R., <i>et al.</i> , "Analysis of the RNA- and DNA-Dependent DNA Polymerase Activities of Point Mutants of HIV-1 Reverse Transcriptase Lacking Ribonuclease H Activity," <i>Biochemistry</i> 30:10498-10506, American Chemical Society (1991)

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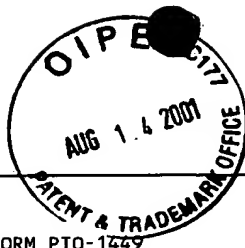
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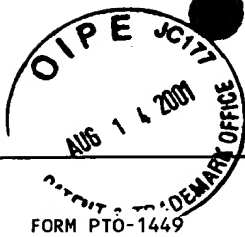
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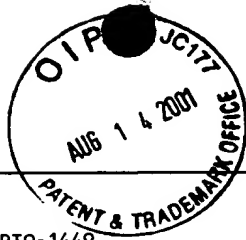
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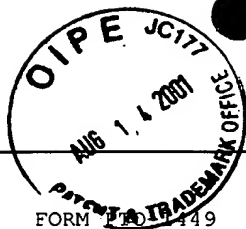
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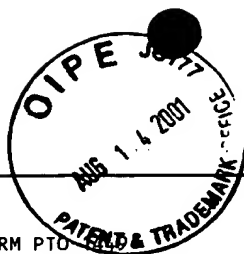
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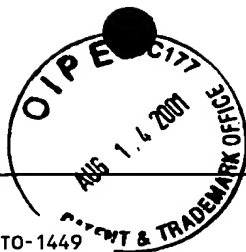
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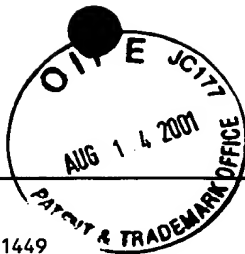
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.5030001APPLICATION NO.
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March 15, 2001GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
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TS	AR	<u>26</u>	Pop, M.P., and Biebricher, C.K., "Kinetic Analysis of Pausing and Fidelity of Human Immunodeficiency Virus Type 1 Reverse Transcription," <i>Biochemistry</i> 35:5054-5062, The American Chemical Society (1996)
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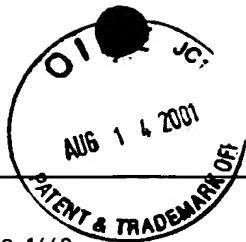
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TS	AR	<u>27</u>	Rezende, L.F., <i>et al.</i> , "The Impact of Multidideoxynucleoside Resistance-Confering Mutations in Human Immunodeficiency Virus Type 1 Reverse Transcriptase on Polymerase Fidelity and Error Specificity," <i>J. Virol.</i> 72:2890-2895, The American Society for Microbiology (1998)
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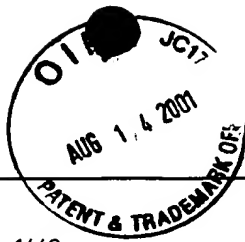
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TS	AR	<u>28</u>	Rubinek, T., <i>et al.</i> , "The fidelity of 3' misinsertion and mispair extension during DNA synthesis exhibited by two drug-resistant mutants of the reverse transcriptase of human immunodeficiency virus type 1 with Leu74→Val and Glu89→Gly," <i>Eur. J. Biochem.</i> 247:238-247, Springer International (1997)
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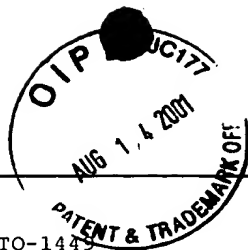
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TS	AR	29	Schultz, S.J., et al., "Polypurine Tract Primer Generation and Utilization by Moloney Murine Leukemia Virus Reverse Transcriptase," <i>J. Biol. Chem.</i> 274:34547-34555, American Society for Biochemistry and Molecular Biology (December 1999)
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TS	AR	<u>30</u>	Taube, R., <i>et al.</i> , "The fidelity of misinsertion and mispair extension throughout DNA synthesis exhibited by mutants of the reverse transcriptase of human immunodeficiency virus type 2 resistant to nucleoside analogs," <i>Eur. J. Biochem.</i> 250:106-114, Springer International (1997)
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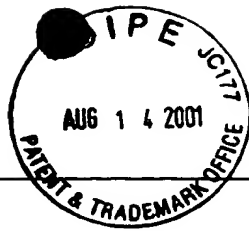
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TS	AR	31	Wakefield, J.K., <i>et al.</i> , "In Vitro Enzymatic Activity of Human Immunodeficiency Virus Type 1 Reverse Transcriptase Mutants in the Highly Conserved YMDD Amino Acid Motif Correlates with the Infectious Potential of the Proviral Genome," <i>J. Virol.</i> 66:6806-6812, The American Society for Microbiology (1992)
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TS	AR	<u>32</u>	Wöhrle, B.M., <i>et al.</i> , "Footprint Analysis of Replicating Murine Leukemia Virus Reverse Transcriptase," <i>Science</i> 267:96-99, American Association for the Advancement of Science (1995)
	AS	<u>32</u>	Yadav, P.N.S., <i>et al.</i> , "A Computer-assisted Analysis of Conserved Residues in the Three-dimensional Structures of the Polymerase Domains of <i>Escherichia coli</i> DNA Polymerase I and HIV-1 Reverse Transcriptase," <i>J. Biol. Chem.</i> 269:716-720, American Society for Biochemistry and Molecular Biology (1994)
TS	AT	<u>32</u>	Yu, H., and Goodman, M.F., "Comparison of HIV-1 and Avian Myeloblastosis Virus Reverse Transcriptase Fidelity on RNA and DNA Templates," <i>J. Biol. Chem.</i> 267:10888-10896, American Society for Biochemistry and Molecular Biology (1992)

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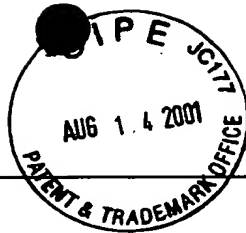
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TS	AR	<u>33</u>	Co-pending U.S. Patent Application No. 60/189,454, filed March 15, 2000.
	AS	<u>33</u>	Co-pending U.S. Patent Application No. 09/677,574, filed October 3, 2000.
TS	AT	<u>33</u>	Co-pending U.S. Patent Application No. 09/845,157, filed May 1, 2001.

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TS	AR	34	Co-pending U.S. Patent Application filed July 12, 2001, Application No. to be assigned.
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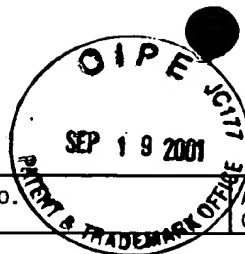
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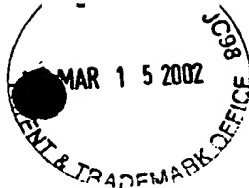
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FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.5030001/RWE/MTT	APPLICATION NO. 09/808,124
	APPLICANT Potter et al.	
	FILING DATE March 15, 2001	GROUP 4656 1637

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